Allied Chemical

CHEMICALS COMPANY

PRODUCT SAFETY DATA SHEET

DPM 950-25

LOS ANGELES CHEM. CO CA9258000

A. GENERAL INFORMATION

TRADE NAME (COMMON NAME OR SYNONYM)	☒ C.A.S. NO. ☐ ALLIED PRODUCT CODE #
Oxalic Acid	144-62-7

CHEMICAL NAME: Oxalic Acid

FORMULA	MOLECULAR WEIGHT
$(COOH)_2 \cdot 2H_2O$	126.07

COMPANY/PLANT ADDRESS (No., STREET, CITY, STATE AND ZIP CODE)
Chemicals Company
P.O. Box 1139R
Morristown, N.J. 07960

CONTACT	PHONE NUMBER	ISSUED DATE	REVISED DATE
Director - Technical Service	(315) 487-4990	June 12, 1980	

B. FIRST AID MEASURES

EMERGENCY PHONE NUMBER (201) 455-2000

Skin or Eyes: Promptly flush with plenty of water for at least 15 minutes.
Ingestion: Drink large amounts of milk to dilute and neutralize the acid. Do not induce vomiting.
Get prompt medical attention for ingestion, inhalation, eye contact, irritation or burns.

C. HAZARDS INFORMATION

FIRE AND EXPLOSION

FLASH POINT °C ☐ OPEN CUP ☐ CLOSED CUP	AUTO IGNITION TEMPERATURE °C	FLAMMABLE LIMITS IN AIR (% BY VOL.)
	NA - Not Applicable	LOWER NA UPPER NA

UNUSUAL FIRE AND EXPLOSION HAZARDS
Partial decomposition occurs at 150° C. Decomposition products include carbon monoxide and formic acid, which are both toxic and flammable. Can react violently with strong oxidizers.

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HEALTH

INHALATION
Inhalation of dust or mists can cause irritation or burns to the upper respiratory system, including nose, mouth, and throat. Can also irritate lungs.

INGESTION
Can cause irritation and corrosive burns to mouth, throat, and stomach, etc. Can be fatal if swallowed. Oxalic acid is a systemic poison affecting the central nervous system and kidney function as well as other organs.

SKIN
Can cause irritation or corrosive burns. Dilute solutions can be irritating on prolonged exposure.

EYES
Can cause irritation, corneal burns, and conjunctivitis.

PERMISSIBLE CONCENTRATION: AIR (SEE SECTION J) Threshold Limit Value (TLV) 1 mg/m^3 BIOLOGICAL

UNUSUAL CHRONIC TOXICITY

D. PRECAUTIONS/PROCEDURES

VENTILATION

Sufficient to reduce dust or mist concentrations below current permissible TLV levels.

NORMAL HANDLING

Use appropriate precautions and protective equipment as outlined in Section E.

STORAGE

Store in a cool, dry place away from food, food chemicals or strong oxidizers.

PRECAUTIONARY LABEL ☐ ATTACHED ☒ NOT ATTACHED

Label warning statement(s): "Danger - May be fatal if swallowed. Causes eye and skin irritation. Do not breathe dust. Keep away from food and food products."

SPILL OR LEAK

Sweep and shovel up into container. Neutralize area with alkali solution. (See Section I for disposal methods.)

FIRE EXTINGUISHING AGENTS **RECOMMENDED**

NA

SPECIAL FIRE FIGHTING PRECAUTIONS

Formic acid and carbon monoxide gases may be present. Self-contained breathing apparatus or air-supplied respirator may be required.

FIRE EXTINGUISHING AGENTS TO **AVOID**

NA

SPECIAL PRECAUTIONS/PROCEDURES

E. PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION

Where required, use a respirator approved by NIOSH for dusts or dusts and mists, as applicable.

EYES AND FACE

As a minimum, wear hard hat and chemical safety goggles. Do not wear contact lenses. For further face protection, include full-face shield.

HANDS, ARMS, AND BODY

As a minimum, wear long-sleeve shirt and trousers, boots and gloves for routine product use. Wear acid-resistant apron and impervious gloves when handling solutions.

OTHER CLOTHING AND EQUIPMENT

I. ENVIRONMENTAL

DEGRADABILITY	OCTANOL/WATER PARTITION COEFFICIENT
5 day BOD: 0.12 lb/lb	

WASTE DISPOSAL METHODS*

Neutralize with alkali solution and flush to sewer with plenty of water if permitted by applicable disposal regulations. Neutralized waste may have to be disposed of by an approved contractor.

*DISPOSER MUST COMPLY WITH FEDERAL, STATE AND LOCAL DISPOSAL OR DISCHARGE LAWS.

J. REFERENCES

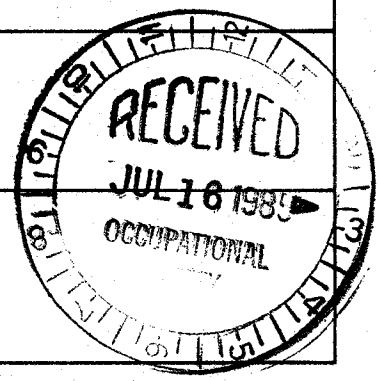
PERMISSIBLE CONCENTRATION REFERENCES

OSHA standard, 29 CFR, Part 1910.1000 (July 1, 1977).

REGULATORY STANDARDS

DOT Classification - Not Regulated (49 CFR).

GENERAL



K. ADDITIONAL INFORMATION

This product is not for food or drug use.

Lacco
LOS ANGELES CHEMICAL COMPANY
SOUTH GATE, CALIFORNIA 90280
(213) 583-4761

F. PHYSICAL DATA

MATERIAL IS (AT NORMAL CONDITIONS):	APPEARANCE AND ODOR	
☐ LIQUID ☒ SOLID ☐ GAS ☐ _____	Colorless crystals; Odorless.	
BOILING POINT °C MELTING POINT 101.5 °C	SPECIFIC GRAVITY (H_2O = 1) 1.653	VAPOR DENSITY (AIR = 1) NA
SOLUBILITY IN WATER (% by weight) 13.7% solution at 25°C	pH 1% solution*; pH = 1.3	VAPOR PRESSURE (mm Hg at 20° C) NA
EVAPORATION RATE (Butyl Acetate = 1) NA	% VOLATILES BY VOLUME (At 20° C) NA	*anhydrous basis

G. REACTIVITY DATA

STABILITY	CONDITIONS TO AVOID
☐ UNSTABLE ☒ STABLE	

INCOMPATIBILITY (MATERIALS TO AVOID)

Reacts with alkalies, decomposes at high temperatures (above 150°C). Reacts with some silver compounds to form explosive silver oxalate. Can react violently with strong oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS

formic acid, carbon monoxide.

HAZARDOUS POLYMERIZATION	CONDITIONS TO AVOID
☐ MAY OCCUR ☒ WILL NOT OCCUR	

H. HAZARDOUS INGREDIENTS (Mixtures Only)

MATERIAL OR COMPONENT	%	HAZARD DATA (SEE SECT. J)
NA		